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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/660,444	09/11/2003	Andrzej Chanduszko	NMT-015	4893	
22832 7590 06/29/2007 Kirkpatrick & Lockhart Preston Gates Ellis LLP (FORMERLY KIRKPATRICK & LOCKHART NICHOLSON GRAHAM)			EXAMINER		
			YABUT, DIANE D		
STATE STREET FINANCIAL CENTER One Lincoln Street		ART UNIT	PAPER NUMBER		
BOSTON, MA 02111-2950			3734		
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			MAIL DATE	DELIVERY MODE	
		•	06/29/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/660,444	CHANDUSZKO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Diane Yabut	3734	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 24 A	pril 2007.		
	action is non-final.		
3) Since this application is in condition for alloware closed in accordance with the practice under E	nce except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) 31,34-42 and 60-64 is/are pending in 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 31,34-42 and 60-64 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers		·	
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 14 November 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/5/2007.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 24 January 2007 has been entered.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 5 March 2007 is acknowledged. The submission is in compliance with the provisions of 37 CFR 1.97.

Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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4. Claim 37 is rejected under 35 U.S.C. 102(b) as being anticipated by **Das** (U.S. Patent No. **5,334,217**).

Claim 37: Das discloses the method of introducing into the heart of a patient a delivery member for delivering a plurality of hexagonally shaped flexible members (Figures 5C, 8), introducing said hexagonally shaped flexible members through a patent foramen ovale, or PFO (Figure 8), placing at least one of the hexagonally shaped flexible members on a left atrial side of a septum primum (Figure 10), and withdrawing the at least one hexagonally shaped flexible member from the left atrial side (withdrawing one of the hexagonally shaped flexible members is considered to be shown in Figure 8 as one of the members advances through the PFO).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 31, 34-35, and 60-63 are rejected under 35 U.C. 103(a) as being unpatentable over Roue (U.S. Patent No. 6,290,674).

Claims 31, 34-35, and 60-63: Roue discloses a method for stabilizing a tissue for implanting an occlusion device in a patient comprising the steps of introducing into a heart of a patient a delivery member comprising at least a first flexible member, said first

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flexible member comprising a first end portion 36 and a second free end portion (distal end of 36), introducing said second free end portion of said first flexible member through the opening of a patent foramen ovale prior to introducing a hole through a septum primum (left side of tissue 120), contacting said second free end portion with a left atrial side of said septum primum, and contacting first end portion of said first flexible member on a right atrial side of the septum primum (see Figures 12-13), introducing a hole through said septum primum (Figure 13), withdrawing said second free end portion of said flexible member from said left atrial side, and introducing an occlusion device or suture 108 for occluding said patent foramen ovale through said hole in said septum primum and joining tissue (Figures 14-15).

Roue does not explicitly disclose the "tissue plane 120" having a "septum primum," however Roue does disclose that the method may be used for a septal defect such as in the patent foramen ovale (col. 13, lines 32-41) and discloses an aperture 122 that would represent a patent foramen ovale and the left and right sides of 120 in Figure 13 would represent septum primum and septum secundum tissues, respectively. Roue also discloses that one of ordinary skill in the art would also have contacted the second free end portion with the left atrial side of the septum primum and the first end portion on a right atrial side of the septum primum (col. 13, lines 42-58).

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7. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Roue** (U.S. Patent No. **6,290,674**) in view of **Sawyer** (U.S. Patent No. **5,749,895**).

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Claim 36: Roue does not expressly disclose a tissue welding apparatus. However, use of a tissue welding apparatus is well known in the art, as evidenced by Sawyer. It would have been obvious to one of ordinary skill in the art at the time of invention to provide a tissue welding apparatus, as taught by Sawyer, to Roue in addition to a septal defect occluder in order to more effectively ensure a tight occlusion of the PFO defect.

8. Claims 38-41 and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Das (U.S. Patent No. 5,334,217) in view of Roue (U.S. Patent No. 6,290,674).

Claims 38-41 and 64: Das does not explicitly show puncturing a hole through the septum primum. However, Roue teaches puncturing a hole through the septum primum prior to introducing a septal occlusion member (see discussion of Claims 31, 34-35, and 60-63 above) in order to deliver the septal defect closure device to effectively engage and secure the tissue, and it would have been obvious to one of ordinary skill in the art to modify Das by providing a hole through the septum primum for delivering the septal defect closure device, as taught by Roue in order to effectively deliver the closure device to ensure secure engagement of the tissues.

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9. Claim 42 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Das** (U.S. Patent No. **5,334,217**), as applied to Claim 37 above, in view of **Roue** (U.S.

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Patent No. 6,290,674), and further in view of Sawyer (U.S. Patent No. 5,749,895).

Claim 42: Neither Das nor Roue expressly disclose a tissue welding apparatus.

However, as mentioned above, use of a tissue welding apparatus is well known in the art, as evidenced by Sawyer. It would have been obvious to one of ordinary skill in the art at the time of invention to provide a tissue welding apparatus in addition to a septal defect occluder, as taught by Sawyer, to Das and Roue in order to more efficiently occlude the PFO defect.

Response to Arguments

- 10. Applicant's arguments with respect to claims 31, 34-35, and 60-63 have been considered but are most in view of the new ground(s) of rejection.
- 11. Applicant's arguments filed 24 April 2007 have been fully considered but they are not persuasive.
- 12. The applicant argues that Das is silent as to the disks being withdrawn from the septal defect once deployed. The examiner disagrees. The disks being withdrawn from the septal defect once deployed is not recited in Claim 37. All that is required is that there is a step of withdrawing one of the hexagonally shaped flexible members, which is shown in Figure 8, as one of the members advances through the PFO, and therefore this reads on the claim.
- 13. The applicant also argues that Sawyer does not teach treating a patent foramen ovale. However, Sawyer teaches a tissue welding apparatus, as maintained above, and

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the teaching of effectively joining tissues together with a tissue welding apparatus would have suggested a benefit to those of ordinary skill in the art, and therefore it would have been obvious to modify Roue and/or Das by using a tissue welding apparatus.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diane Yabut whose telephone number is (571) 272-6831. The examiner can normally be reached on M-F: 9AM-4PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Hayes can be reached on (571) 272-4959. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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